

--62. A purified DNA fragment of HIV-1 consisting of a restriction fragment, wherein the fragment hybridizes to the genomic DNA of HIV-1 under hybridization conditions of 20% formamide, 8X SSC, at 37°C, with washes in 2X SSC, 0.1%SDS, at 37°C.

63. The fragment of claim 62, wherein the hybridizing genomic HIV-1 DNA is λ J19 DNA.

64. A cloned DNA fragment of HIV-1, wherein said fragment hybridizes to the genomic DNA of HIV-1 under hybridization conditions of 20% formamide, 8X SSC, at 37°C, with washes in 2X SSC, 0.1%SDS, at 37°C.

65. The fragment of claim 64, wherein the hybridizing genomic HIV-1 DNA is λ J19 DNA.

66. An isolated double-stranded DNA fragment of HIV-1, wherein a strand of said fragment hybridizes to the genomic DNA of HIV-1 under hybridization conditions of 20% formamide, 8X SSC, at 37°C, with washes in 2X SSC, 0.1%SDS, at 37°C.

67. The fragment of claim 66, wherein the hybridizing genomic HIV-1 DNA is λ J19 DNA.

68. An amplified copy of a DNA fragment of HIV-1, wherein said fragment hybridizes to the genomic DNA of HIV-1 under hybridization conditions of 20% formamide, 8X SSC, at 37°C, with washes in 2X SSC, 0.1%SDS, at 37°C.

69. The copy of claim 68, wherein the hybridizing genomic HIV-1 DNA is λ J19 DNA.